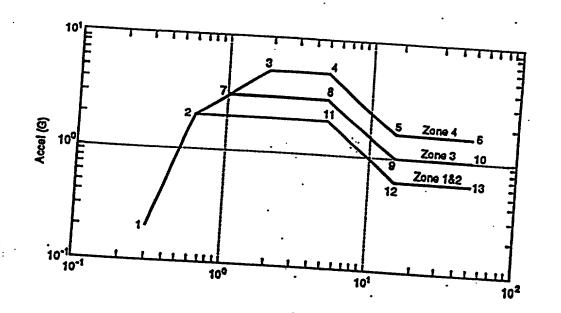


Earthquake Synthesized Waveform - VERTEQII

Fig 1A



Coordinate Point	(Hz)	Values for Upper Floor Acceleration (2)	Coordinate Point	Frequency	Values for Upper F
Zones 1 and 2		and 2	* OUT	(H ₂)	Acceleration (2)
1	0.3	0.2		Zon	e 4
2	0.6		1	0.3	0.2
11	5.0	2.0	2	0.6	
12		2.0	3	2.0	2.0
	15.0	0.6	4		5.0
13	50.0	0.6		5.0	5.0
Zone 3		5	15.0	1.6	
1	0.3		6	50.0	1.6
2		0.2			1.0
	0.6	2.0	-		
7	1.0	3.0			
8	5.0	3.0			
9	15.0	1.0			
10	50.0	1.0			

Fig 1B

::

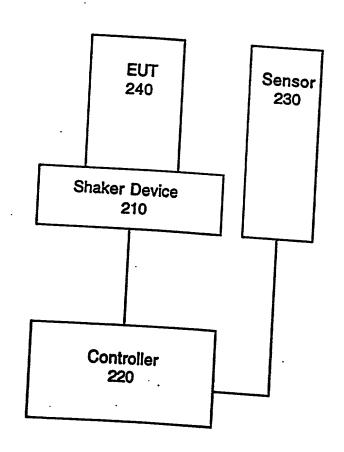
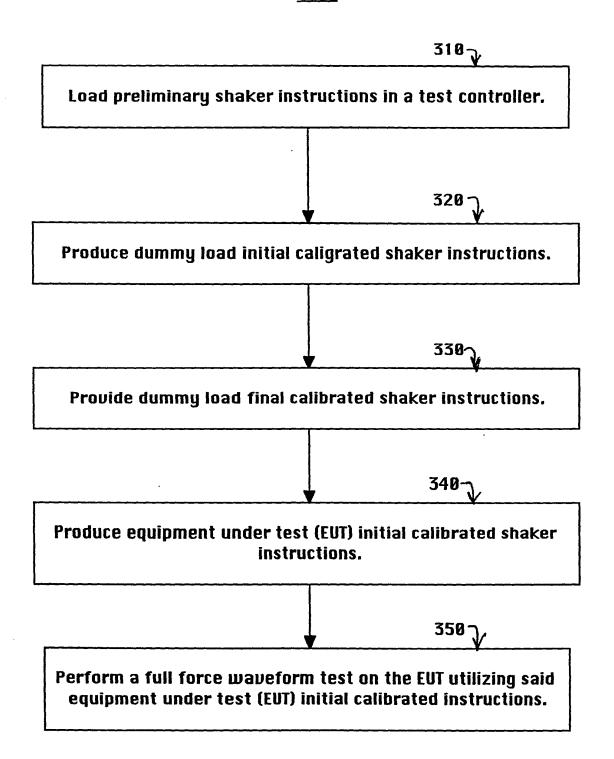


FIG 2



322 ე

Shake a dummy load at a first attenuated value of the preliminary shaker instructions.

323

Measure the actual accceleration time history movement of the dummy load when shook at the attenuated value of the preliminary shaker instructions.

324

Analyze if a dummy load attenuated test response spectrum (TRS) is projected to be within acceptable range of a required response sepctrum(RRS) requirements.

325 γ

Make adjustments in the preliminary shaker instructions to produce the dummy load initial calibrated shaker instructions, the adjustments calculated to bring a dummy load full strength test response spectrum within acceptable range of the required response spectrum (RRS)

Shake a dummy load at full strength value of the dummy load initial calibrated shaker instructions.

333

Measure the actual acceleration time history movement of the dummy load when shook at the full strength value of the dummy load initial calibrated shaker instructions.

334

Determine if the dummy load full strength test response spectrum (TRS) is within an acceptable range of the required response spectrum (RRS).

335

Make adujustments in the dummy load initial calibrated shaker instructions to produce the dummy load final calibrated shaker instructions, the adjustments calculated to brnig a test respons spectrum (TRS) within an acceptable range of the required response spectrum (RRS).

Shake equipment under test at a second attenuated value of the dummy load final calibrated shaker instructions.

3437

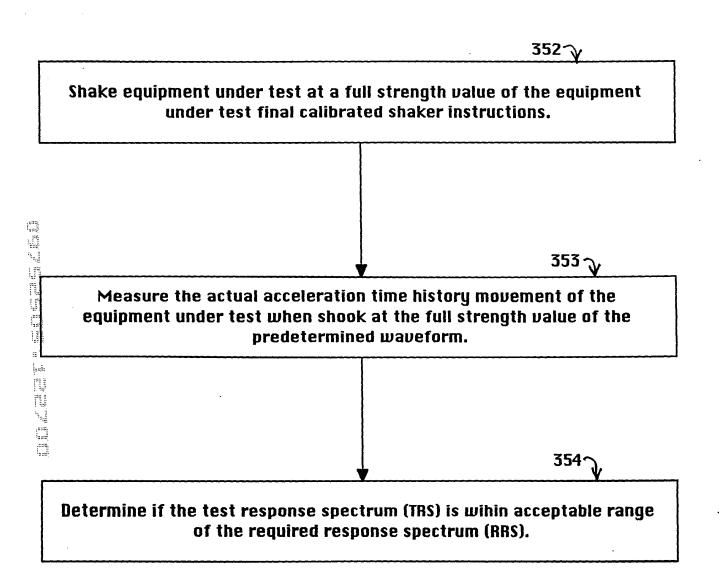
Measure the actual acceleration time history movement of the equipment under test when shook at the attenuated value of the predetermined waveform.

344

Determine if the equipment under test attenuated test response spectrum (TRS) is within an acceptable range of the required repsonse spectrum (RRS).

345

Make adjustments to the dummy load final calibrated shaker instructions to produce the equipment under test attenuated shaker instructions if the dummy load full strength test response spectrum (TRS) is not within an acceptable range of the required response spectrum (RRS).



400

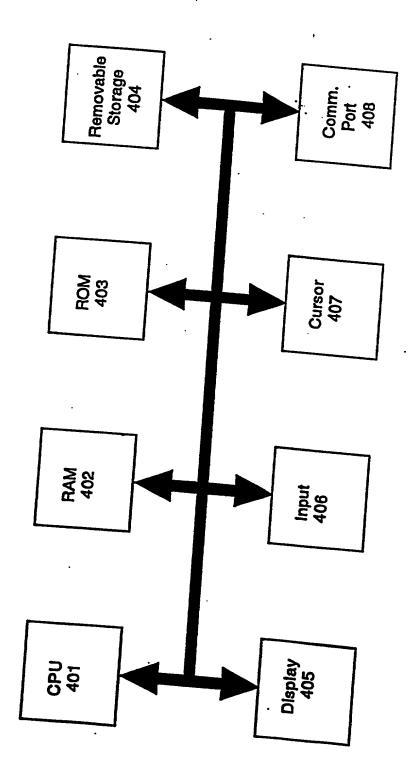


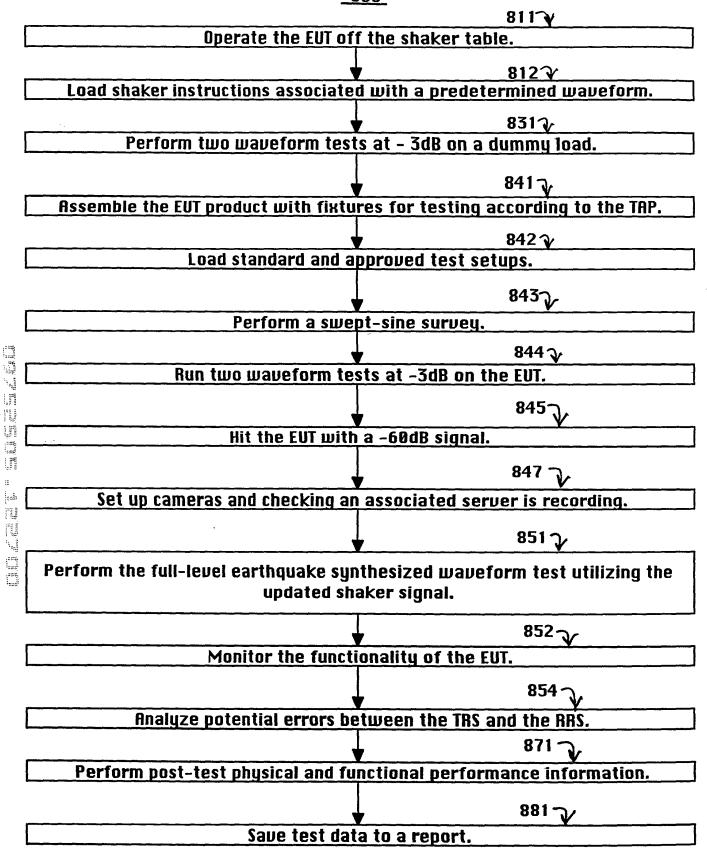
FIG4

FIG 5

610-Determine if it is approriate to test the EUT at a frame-level or a shelf-level. 620-Configure a frame to a known realistic configuration per an anticipated end-use installation. 630 Preform a pre-test inspection process to detemine the pre-test condition of the EUT. 640 Perform an end use compensation process that compensates for impacts from end use apenditures anticipated to be coupled to the EUT.

. Test Parameter	Performance Criteria	Test Tolerance	
VERTEQII waveform	TRS shall meet or exceed RRS	TRS less than 30%	
Acceleration	synthesized waveform 1.6 (peak for 30 seconds	Not Applicable	
lata sample rate	200 Hz		
est frame system	435 lbs (approximately)	Not Applicable	
ad-cell torque	up to 65 ft-lbs	+/- 5%	
displacement ack top)	76.2 mm maximum	+/- 1 ft-lb	

FIG 7



Test	·	
Parameter	Performance Criteria	
Frequency Range	Performance Criteria :	Test Tolerance
Sweep Rate	1- 40 00 117	Not Applicable
Acceleration	1.0 octave/minute 0.2 G's	Not Applicable
data sample rate .		H- 0.02 G's
test frame system weight		Vot Applicable
norgat.	435 lbs (approximately)	/- 5%

FIG 9

•	• •		
Walter	••••••••••••••••••••••••••••••••••••••		
: Model #	Code Nan	ne Duck	Juit BU Contac
	:	in in its in the interest of	Init BU Contac
Date	Vertical	Frank	:
Time		FAOIIT-10-B	ck Side-to-Side
Test Engineer or Technician		 	
Frame Top Resonant Frequency (Hz)			-
EUT Resonant E	•		-
			_
Peak Acceleration Response			
at the top of the Frame (G) Displacement (inches or mm)			
COVER DOTAL			-
Cracks, Buckles, Visual			
Bolt or Archan El			
Load Cell values (lb, all 4)			
Dianis during the m			
unction during the Test			
			1

FIG 10